Paper Trade Journal—Volume 150—Year 1966
Index to Feature Articles

The articles listed below are cross-referenced for the convenience of users. Short items and news stories are not included in this index.

Issue

Alkaline Pulping

Black Liquor Burning and Chemical Make-up.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 54 Dec. 12

Causes and Prevention of Recovery Furnace Explosions ..... p. 56 Oct. 17

Effect of the Various Cooking Chemicals in Kraft Pulping ..... p. 33 Aug. 1

Influence of Cooking Liquor on Wood Components in Kraft Pulping... p. 44 Aug. 15

Mexican Kraft Mill Uses Observers to Check Its Odor Control Program.
—Walter Lenz and Adalberto Tirado A. ..... p. 64 Aug. 22

Modern Recausticizing Practice Fits Flowsheet to Mill Requirements.
—Robert J. Mattison ..... p. 28 May 30

Multistage Kraft Cooking and Other Chemical Modifications.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 48 Oct. 31

Phenomenal Growth in World Kraft Pulp Capacity And Why.
—Hermann F. J. Wenzl ..... p. 32 Aug. 1

Principles and Practices of Kraft Black Liquor Evaporation.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 51 Nov. 28

Production and Refining of Tall Oil in Finland.
—Aarno Aranto ..... p. 39 Mar. 21

Reaction Parameters in Kraft Pulping.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 52 Oct. 3

Theoretical Aspects of Brown Stock Washing.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 50 Nov. 14

Issue

Trends and Developments in Batch and Continuous Kraft Cooking.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 63 Oct. 17

Union Camp Completes Major Expansion of Franklin, Va., Mill.
—Charles P. Klass ..... p. 40 Oct. 24

Union Camp's Continuous Digester Sets Precedent in Sawdust Pulping.
—Harry Dyer and Charles P. Klass ..... p. 43 Oct. 24

Wood Structure and Movement of Cooking Liquors in the Wood During Kraft Pulping.
—Hermann F. J. Wenzl with O. V. Ingruber ..... p. 28 Sept. 5

Board Manufacturing

A Look at Wet Felt Practices in Western Europe.
—William S. Wightman ..... p. 42 Mar. 28

Control of Moisture Uniformity With Pocket Ventilation.
—David R. Alexander ..... p. 55 Sept. 19

Control of Wire Table Drainage
—Foils Show Versatility
—V. E. Hansen ..... p. 34 Dec. 26

Dryer Clothing Today—I.
—William H. Dutt ..... p. 50 Oct. 17

Dryer Clothing Today—II.
—William H. Dutt ..... p. 50 Oct. 24

Effect of the Controllable Headbox Variables on Paper Formation.
—I. I. Locke ..... p. 42 April 18

First Thirty Months of Experience with Venta-Nip Presses.
—Thomas M. Jones ..... p. 62 Aug. 22

How Alton Box Board Co. Repairs Damaged Needled Felts.
—G. R. Chamblis and M. J. Seidel p. 28 Jan. 24

	Issue
How Continental Paper Co. Uses Curved Rolls. p. 39	Aug. 1
How to Determine Inherent Paper Machine Capability. —Fred Streit p. 40	Nov. 7
Improve Board Machine Profits through Better Stock Preparation. —W. Herbert and D. H. Kohlhepp p. 30	July 18
Improved Dryer Clothing Can Mean Real Profit Improvement. —O. G. Haywood p. 50	Aug. 15
Latex Fiber Industries Installs Five New Vats at Beaver Falls p. 48	Oct. 24
More Practical Suggestions from a Papermaker's Notebook—II. —Herbert Maus p. 36	Feb. 28
New Dry Vat Design Improves Cylinder Machine Operation. p. 38	Nov. 7
New Solutions to Problems of Hair Shedding By Felts. p. 62	Jan. 10
New Type of Asbestos Shows Advantages in Papermaking. —Charles P. Klass and Blair L. Ingalls p. 40	Feb. 14
Paperboard Manufacturers Get Optimistic Reports with a Few Reservations. —John C. W. Evans p. 42	Nov. 28
Practical Suggestions from a Papermaker's Notebook—I. —Herbert Maus p. 50	Feb. 14
Practical Suggestions from a Papermaker's Notebook—Part III. —Herbert Maus p. 42	Mar. 21
Progress Report on Thilmany's Hi-I Press Evaluation. —Charles P. Klass p. 30	Jan. 24
Reduction of Unfiberized Stock from Wet Strength Board. —Norman H. Parker p. 54	May 16
Swedish Engineers Review Results Obtained with Newer Press Designs. p. 34	April 11
Water Removal with the High Intensity Nip Press. —S. J. McNamara and M. K. Baxter p. 70	Feb. 21
What is the Status of Plastic Fourdrinier Forming Fabrics Use? p. 46	June 20
What's New in Paper Machine Felts? —J. Spencer Standish p. 42	May 9
Where are We Going in Dryer Section Design? —Otis B. Witworth p. 66	Feb. 21
Why Hydrofoils are Replacing Table Rolls On the Fourdrinier. —J. L. Hanchette p. 64	May 23
Winder Operation—Present Information Not Used, Problems To Be Studied. —I. I. Locke p. 38	Sept. 5

Bleaching

Current Trends in Methods of Bleaching Mechanical Pulp. —Gunnar Gavelin p. 42	June 27
New Uses for Sulphamic Acid in Paper Pulp Bleaching. —Ramon U. Tobar p. 36	June 27
Peroxide Bleaching of Chemi-Mechanical Hardwood Sulphite Pulp. —G. L. K. Hoh, N. J. Stalter, and F. L. Fennell p. 57	Nov. 21
Progress Report on Computer Control of Eastex's Bleach Plant. —Al Guillory p. 35	Jan. 31

Coating

Coated Paper Discussed at U. K. Conference. —John Buck p. 40	April 18
EUCEPA Conference in London Features All Types of Coating. —Charles P. Klass p. 44	Sept. 19
Evaluation of New Continuous Starch Conversion Process At Oxford's Rumford Mill. —F. G. Ewing and H. S. DeGroot p. 48	Mar. 21
Further Studies of Continuous Starch Conversion for Coating. —H. S. DeGroot and F. G. Ewing p. 32	Sept. 5
How To Formulate Non-pigmented and Low-pigmented Opaque Coatings. —Alfred H. Nadelman p. 70	April 25
Multiple Coatings—the Status of the Art. —Alfred H. Nadelman p. 32	June 27
New Coatings Improve Packaging of Frozen Convenience Foods. —Robert F. Hawkins p. 54	April 18

		Issue
New Specialty Coater Doubles Output at Jointine Products. —John Buck	p. 43	April 4
Polyethylene Extrusion Coating—the Present Stage of Development. —H. O. Ranger	p. 44	Sept. 26
Report from Chicago: Coating Conference Registers All-Time High. —Charles P. Klass	p. 48	May 23
Swedish Coater Does C2S Blade-type Coating Simultaneously. —Bengt Wiklund	p. 48	Dec. 12
The Helicoater—A Novel Approach to a Study of the Problems of Blade Coating Machines. —N. O. Clark, W. Windle, and C. A. Restall	p. 49	Sept. 19
Ultrasonic Defoaming Boosts Continental's Coated Board Quality	p. 44	May 9
Vibrating Pressure Filters Improve Coated Paper Quality. —Charles P. Klass	p. 36	Sept. 5
Wax-based Hot Melt Coatings Hold Spotlight at WMU Seminar.	p. 55	Nov. 21
Weyerhaeuser Plainwell Program Includes On-machine Blade Coater. —Charles P. Klass	p. 48	Jan. 10

Converting Operations

CCA Opens New England's Newest Corrugated Shipping Container Center	p. 59	Aug. 22
How a Union Camp Box Plant Slashes Corrugating Adhesive Costs.	p. 53	Dec. 12
MI/DAC System Keeps Close Eye on Lily Tulip's Lubrication Schedules	p. 50	June 20
New Coatings Improve Packaging of Frozen Convenience Foods. —Robert F. Hawkins	p. 54	Apr. 18
New O-I Corrugated Box Plant Located at Newberry, S. C.	p. 38	Aug. 8
Packaging: The View from the United Kingdom and Europe. —Colin Francis Popham	p. 46	Mar. 7
Perishable Foods—Growth Market for Corrugated Containers.	p. 34	May 2
Place and Future of Paper in Flexible Packaging, from a Converter's Point of View. —E. V. Southan and R. Winter	p. 47	Oct. 3
Polyethylene Extrusion Coating—the Present Stage of Development. —H. O. Ranger	p. 44	Sept. 26
Review of the Pulp Molding Industry and Processes Used. —Roy W. Emery and John R. Emery	p. 29	Jan. 3
Special Shear-type Slitters Solves Interstate's Dust Problem. —L. Justice and R. Schrock	p. 47	Oct. 31
Wax-based Hot Melt Coatings Hold Spotlight at WMU Seminar.	p. 55	Nov. 21
Weyerhaeuser Solves Multi-size Shipping Container Problem.	p. 43	May 16

Engineering

Belled-end Fittings Widen Use of Light Wall Stainless Steel Piping. —John W. Reckard	p. 83	Apr. 25
British Paper Conditioner Stabilizes Moisture Content. —John Buck	p. 32	Dec. 26
British View of the Role of the Consulting Engineer. —K. D. Blundell	p. 44	Aug. 29
Cause and Prevention of Fuel Explosions in Power Boilers. —L. H. Coykendall	p. 40	Aug. 29
Chest-in-chest Design for Blending and Storage	p. 54	Nov. 14
Compact High-capacity Package Boiler Installed at Waldorf Mill. —Charles K. Ladendorf	p. 38	May 16
Control of Wire Table Drainage —Foils Show Versatility —V. E. Hansen	p. 34	Dec. 26
Electrical Strip Solves Tank Heating Problems at St. Joe Paper.	p. 43	May 30
Field Interrupter Relay, a Watchdog over the D.C. Motor —Bert Carson	p. 37	Aug. 8
Garden State Gets 47% Dryness from New Swedish Press Section. —Charles P. Klass	p. 30	Dec. 26

		Issue
How Consolidated Papers Makes Its Cost Reduction Program Work. —Wallace E. Sydanmaa	p. 34	Apr. 4
How Continental Paper Co. Uses Curved Rolls.	p. 39	Aug. 1
Largest TAPPI Engineering Conference Held in Boston	p. 55	Nov. 14
New Economical Design Concept for Pulp Storage Towers.	p. 54	Oct. 24
Paper Industry IE Conference Studies Methods and Motivations. —Charles P. Klass	p. 32	Apr. 4
Preplanned Shipping of Paper Yields Benefits for Nekoosa-Edwards. —C. W. Magnuson	p. 36	Apr. 11
Principles and Practices in Stock Chest Agitation. —E. R. Zuehlke	p. 46	May 9
Solid-State Equipment for High Power Drive Controls. —W. R. Harris	p. 42	June 20
The Bar Chart: A Complement to Critical Path Planning in Everyday Maintenance. —Burt Carson	p. 34	Jan. 3
Where Are We Going in Dryer Section Design? —Otis B. Witworth	p. 66	Feb. 21
Why American Can Co. Picked Electronic Controls for Naheola. —Carroll Owensby	p. 36	July 18

Finishing

Automatic Roll Strapping Machines Show Substantial Savings.	p. 49	Apr. 18
British Paper Conditioner Stabilizes Moisture Content. —John Buck	p. 32	Dec. 26
How Champion Cuts Kromekote Board Faster and Cheaper.	p. 28	May 2
In-floor Buggy Services Shaftless Backstand at Oxford Mill	p. 54	May 9
Movable Side Guide, Straight Flow Boost Trimmer Production —H. T. Hawkes	p. 48	Feb. 14
Preplanned Shipping of Paper Yields Benefits for Nekoosa-Edwards. —C. W. Magnuson	p. 36	Apr. 11
Special Shear-type Slitters Solves Interstate's Dust Problem. —L. Justice and R. Schrock	p. 47	Oct. 31
Weyerhaeuser Solves Multi-size Shipping Container Problem.	p. 43	May 16

Forecasts

Gain of 18% in Capacity by 1968	p. 44	Nov. 28
Place and Future of Paper in Flexible Packaging, from a Converter's Point of View. —E. V. Southan and R. Winter	p. 47	Oct. 3
The National Economic Outlook. —Benjamin Slatin	p. 49	Mar. 7
Wall Street Looks at the Pulp and Paper Industry. —James W. Davant	p. 45	Feb. 14

Instrumentation

An Overview of Computer Control in the Pulp and Paper Industry —David E. Kirk	p. 34	Jan. 31
Automated Water Supply and Treatment Plant at Glatfelter —Joseph Roth and M. C. Kendrick	p. 50	Nov. 21
Automatic Monitoring Can Improve Paper Machine Efficiencies —Orville Cummins	p. 58	Oct. 17
Belgian Engineers Stage Meeting on Instrumentation & Automation	p. 53	Nov. 21
Billerud's Paper Mill Computer Installation Described and Analyzed	p. 33	Aug. 29
Canadian Board and Paper Industry Conference Looks to the Future	p. 44	May 16
Computerized Machine Boosts Mead's White Paper Capacity by 15 Per Cent —Charles P. Klass	p. 36	Aug. 15
Design and Operation of Mead's Kingsport No. 5 Computer System —John Fisher	p. 41	Aug. 15
Dual Channel Control System Improves Instrument Availability —George R. Mounce, John Stockmann, and Bruce W. Smith	p. 36	Aug. 29
Harding Jones Uses Infra-red Moisture Gage on Festoon Dryer	p. 38	Dec. 26
How to Measure Groundwood Pulp Quality—Part II —Gunnar Gavelin	p. 43	Apr. 11

		Issue
How Wiggins Teape Developed Its On-Machine Porosity Meter —L. D. Edenborough	p. 62	Sept. 12
Installation of a Control Computer on a Crown Zellerbach Machine —D. F. Church	p. 41	Jan. 31
Instrumentation for a Continuous Magnefite Pulping Installation —Douglas E. Honer	p. 32	May 30
Instrumentation for a Continuous Magnefite Pulping Installation—II —Douglas E. Honer	p. 44	June 6
IPC Looks Ahead to the Year 1975	p. 40	May 16
ISA Symposium Spotlights Simulation, Sensing and Control —Charles P. Klass	p. 36	May 2
Progress Report on Computer Control of Eastex's Bleach Plant —Al Guillory	p. 35	Jan. 31
Status of Paper Machine Process Control Computers at Mead Corp. —J. D. Maloney, Jr.	p. 37	Jan. 31
Swedish Mills Start to Close Paper Machine Computer Loops	p. 35	July 18
Systems Engineering Leads Way to Computer Control of Machines —W. H. Mehaffey and J. Mardon	p. 37	Jan. 24
The Hybrid Computer . . . Powerful Tool for Process Problems —George R. Smith and Michael D. Harter	p. 76	Apr. 25
Why American Can Co. Picked Electronic Controls for Naheola —Carroll Owensby	p. 36	July 18
WMU Conference Investigates Current Status of Paper Industry Computers —Charles P. Klass	p. 32	Jan. 31

International

A Look at Wet Felt Practices in Western Europe —William S. Wightman	p. 42	Mar. 28
British Paper Conditioner Stabilizes moisture content. —John Buck	p. 34	Dec. 26
Canadian Expansion—How It Relates to Realities of Future Demand —George W. Osborne	p. 40	June 27
Canadians Hold World's First Conference on Newsprint Manufacture and Use	p. 52	Oct. 10
How Rice and Wheat Straw are Pulped in the Kocani Mill in Yugoslavia —G. Viola	p. 74	June 13
New British Paper Machine for Special Industrial Tissues	p. 77	June 13
New Pulp Mill at Kamloops Is Only the Beginning —Charles P. Klass	p. 62	June 13
Packaging: The View From the United Kingdom and Europe —Colin Francis Popham	p. 46	Mar. 7
Problems of Canada's Prosperous Pulp and Paper Industry	p. 53	Feb. 7
Pulp and Paper—An International Industry?	p. 50	Dec. 12
Spain's Largest Esparto Mill Uses Salt Water, Automated Bleaching —I. M. Kasser	p. 48	Mar. 14
Swedish Mills Start to Close Paper Machine Computer Loops	p. 35	July 18
Swiss Mill Installs High Speed Fine Paper Machines	p. 34	Feb. 28

Maintenance

Controlling Maintenance by a Historical Performance Ratio System —James D. Philpot	p. 45	Dec. 5
How C-Z's Mechanics Detect Faulty Bearings—Before Breakdown—by Ultrasonics	p. 59	Sept. 19
How to Control an Industrial Salvage Program —Bert Carson	p. 60	Sept. 12
Hydraulic Jets Cut Machine Clean-up Time in Half at O-M Box Plant	p. 45	June 20
Maintenance Organization—Centralize, Decentralize or Compromise	p. 58	Nov. 14
MI/DAC System Keeps Close Eye on Lily Tulip's Lubrication Schedules	p. 50	June 20
Special Rubber Elbows Cut Piping Replacement Costs	p. 54	Nov. 21
The Bar Chart: A Complement to Critical Path Planning in Everyday Maintenance —Bert Carson	p. 34	Jan. 3

Issue

Market Data

Canadian Expansion—How It Relates to Realities of Future Demand —George W. Osborne ..... p. 40 June 27

How Line Executives Can Eliminate Roadblocks to New Product Success —W. M. Riegel ..... p. 51 Nov. 7

How Marketing Men Can Eliminate Roadblocks to New Products Success —W. S. Wesson ..... p. 49 Nov. 7

How R&D Men Can Eliminate Roadblocks to New Product Success —Peter E. Wrist ..... p. 46 Nov. 7

Marketing Comes of Age in the Paper Industry —Charles P. Klass ..... p. 43 Nov. 7

Material Handling

Automatic Roll Strapping Machines Show Substantial Savings ..... p. 49 Apr. 18

Bundled Bales Ease Pulp Handling Problems for Alaska Mill ..... p. 40 June 20

"Covered Wagons" Cut Trucking Costs for Union-Camp —W. J. Toland ..... p. 60 Jan. 10

Problems and Opportunities in Utilization and Handling of Pulpwood p. 61 Nov. 14

Rotary Car Dumper Speeds Chip Flow for Fibreboard ..... p. 61 July 25

Mechanical Pulping

Broad Look at Developments in Production of Groundwood Pulp —Douglas Atack ..... p. 28 Aug. 29

Current Status of Mechanical Pulp Manufacture from Chips —Gunnar Gavelin ..... p. 38 July 18

Current Trends in Groundwood Mill Design and Operation —Gunnar Gavelin ..... p. 41 May 2

Current Trends in Methods of Bleaching Mechanical Pulp —Gunnar Gavelin ..... p. 42 June 27

Fundamentals of and Latest Developments in Groundwood Screening —Gunnar Gavelin ..... p. 58 May 23

Grinding Variables and Their Effect on Mechanical Pulp Quality —Gunnar Gavelin ..... p. 53 Mar. 14

Issue

How Chip Groundwood Pulp Is Manufactured —Gunnar Gavelin ..... p. 54 July 25

How to Measure Groundwood Pulp Quality —Gunnar Gavelin ..... p. 44 March 28

How to Measure Groundwood Pulp Quality—Part II —Gunnar Gavelin ..... p. 43 April 11

Modern Screen Room Arrangements and How to Evaluate Them —Gunnar Gavelin ..... p. 37 May 30

Peroxide Bleaching of Chemi-Mechanical Hardwood Sulphite Pulp —G. L. K. Hoh, N. J. Stalter, and F. L. Fennell ..... p. 57 Nov. 21

Problems of Mechanical Pulp Quality —Gunnar Gavelin ..... p. 50 Apr. 18

Pulpstones for Production of Mechanical Pulp —Gunnar Gavelin ..... p. 41 Feb. 28

Re-Appraisal of Grinders for Manufacturing Mechanical Pulp —Gunnar Gavelin ..... p. 56 Feb. 7

Refining Groundwood Screen Rejects to Make Usable Pulp —Gunnar Gavelin ..... p. 71 June 13

Theory and Practice in Grinding Wood for Mechanical Pulp —Gunnar Gavelin ..... p. 52 Jan. 10

Thickening, Storing, and Drying Groundwood Pulp for Shipment —Gunnar Gavelin ..... p. 54 July 11

Two New Scandinavian Chip Groundwood Plants are of Swedish Design —Halvar Fehn ..... p. 52 Dec. 5

Wood, the Raw Material for Mechanical Pulp Production —Gunnar Gavelin ..... p. 80 Apr. 25

Mill Management

How Line Executives Can Eliminate Roadblocks to New Product Success —W. M. Riegel ..... p. 51 Nov. 7

How West Virginia Uses Videotape for Employee Training ..... p. 42 Nov. 7

Miscellaneous

"Are We Ready to Train an Ever-Increasing Number of Engineers?" ..... p. 31 May 2

		Issue
Canadians Hold World's First Conference on Newsprint Manufacture and Use	p. 52	Oct. 10
Cooperative Training Program Solves Skilled Manpower Shortage in British Columbia	p. 44	Apr. 4
Electrical Strip Solves Tank Heating Problems at St. Joe Paper	p. 43	May 30
Evaluation of New Continuous Starch Conversion Process at Oxford's Rumford Mill —F. G. Ewing and H. S. DeGroot	p. 48	Mar. 21
Hammermill Paper Co. Unveils Its Modern R&E Center —Harry Dyer	p. 42	June 6
How Consolidated Papers Makes Its Cost Reduction Program Work —Wallace E. Sydanmaa	p. 34	Apr. 4
How to Control an Industrial Salvage Program —Bert Carson	p. 60	Sept. 12
Leje & Thurne Fiber Recovery and Effluent Treatment Plant —Gunnar Gavelin	p. 50	July 25
Paper Men Explain Industry Careers to Ohio High School Students	p. 60	Nov. 21
Production and Refining of Tall Oil in Finland —Aarno Aranto	p. 39	Mar. 21
Review of the Pulp Molding Industry and Processes Used —Roy W. Emery and John R. Emery	p. 29	Jan. 3
Wall Street Looks at the Pulp and Paper Industry —James W. Davant	p. 45	Feb. 14
What API Is Doing in Public Relations Area —Reginald Wells	p. 48	Nov. 28
Why Settle for Less Than Top Performance from Vibrating Screens? —James Elder	p. 67	Sept. 12

New Mills and Machines

		Issue
Albemarle Completes $13 Million Expansion at Roanoke Rapids Mill —C. L. Wills	p. 38	May 9
Boise Cascade's New NSSC Medium Mill Is in Full Production —Harry Dyer	p. 26	Jan. 31
Brown's Pulp Mill and Corrugating Machine Commissioned at Berlin	p. 48	Dec. 5
Compact High-Capacity Package Boiler Installed at Waldorf Mill —Charles K. Ladendorf	p. 38	May 16
Computerized Machine Boosts Mead's White Paper Capacity by 15 Per Cent —Charles P. Klass	p. 36	Aug. 15
Cons. Paper Corp. Inaugurates Machine —John C. W. Evans	p. 42	Dec. 5
Design and Operations of Mead's Kingsport No. 5 Computer System —John Fisher	p. 41	Aug. 15
Expansion More Than Doubles Capacity of CCC Augusta Mill —Charles P. Klass	p. 46	July 11
Finch, Pruyn Marks 100th Anniversary with Major Mill Expansion —Charles P. Klass	p. 32	Jan. 24
Garden State Adds Second Machine for Deinked Newsprint at Garfield —Charles P. Klass	p. 30	Feb. 28
Great Lakes Sets Sails for World Markets with New Kraft Mill —Harry Dyer	p. 50	Aug. 22
How Rice and Wheat Straw are Pulped in the Kocani Mill in Yugoslavia —G. Viola	p. 74	June 13
Hudson Boosts Tissue Capacity with Major Expansion at Palatka —Charles P. Klass	p. 40	Oct. 3
Largest U. S. Newsprint Machine Starts up at Cox Newsprint, Inc. —Charles P. Klass	p. 24	Aug. 1
Latex Fiber Industries Installs Five New Vats at Beaver Falls	p. 48	Oct. 24
New British Paper Machine for Special Industrial Tissues	p. 77	June 13
New Production Facilities Dedicated at St. Regis Bucksport —Jeremy P. J. Edwards	p. 42	Oct. 10
New Pulp Mill at Kamloops is Only the Beginning —Charles P. Klass	p. 62	June 13
New Specialty Coater Doubles Output at Jointine Products —John Buck	p. 43	Apr. 4

		Issue
Olin Dedicates Major Expansion at West Monroe	p. 36	June 6
Penobscot's Completely New Pulp Mill Now in Operation at Great Works, Maine —Herbert Freedman	p. 60	Feb. 21
Ruberoid Starts up Another Roofing Felt Machine at Joliet	p. 60	Aug. 22
Spain's Largest Esparto Mill Uses Salt Water, Automated Bleaching —I. M. Kasser	p. 48	Mar. 14
Swedish Coater does C2S Blade-Type Coating Simultaneously —Bengt Wiklund	p. 48	Dec. 12
Swiss Mill Installs High Speed Fine Paper Machines	p. 34	Feb. 28
Union-Camp Expansion Boosts Capacity to Over 2,700 t.p.d.	p. 36	Mar. 21
Weyerhaeuser Plainwell Program Includes On-Machine Blade Coater —Charles P. Klass	p. 48	Jan. 10
Weyerhaeuser Springfield Expansion Nearly Triples Linerboard Capacity —Charles P. Klass	p. 20	Jan. 3
Weyerhaeuser's Plymouth Mill Uses Many New Developments —Charles P. Klass	p. 36	Mar. 28
Wiggins Teape Dedicates Scotland's First Integrated Mill —Charles P. Klass	p. 36	Oct. 31

Papermaking

A Look at Wet Felt Practices in Western Europe —William S. Wightman	p. 42	Mar. 28
Allied Adds New 200 t.p.d. Fine Paper Machine at Alabama Mill —Charles P. Klass	p. 32	Aug. 8
An Overview of Computer Control in the Pulp and Paper Industry —David E. Kirk	p. 34	Jan. 31
Automatic Monitoring Can Improve Paper Machine Efficiencies —Orval Cummins	p. 58	Oct. 17
British Paper Conditioner Stabilizes Moisture Content. —John Buck	p. 32	Dec. 26
Control of Moisture Uniformity with Pocket Ventilation —David R. Alexander	p. 55	Sept. 19
Control of Wire Table Drainage —Foils Show Versatility —V. E. Hansen	p. 34	Dec. 26
Dryer Clothing Today —William H. Dutt	p. 50	Oct. 17
Dryer Clothing Today—II —William H. Dutt	p. 50	Oct. 24
Effect of the Controllable Headbox Variables on Paper Formation —I. I. Locke	p. 42	Apr. 18
Felts are the Key Factor in Performance of a Vacuum Pick-up —I. I. Locke	p. 40	Aug. 8
First Thirty Months of Experience with Venta-Nip Presses	p. 62	Aug. 22
Four Years of Experience with Needled Yankee Pickup Felts —Irving H. Peters	p. 48	Oct. 10
Garden State Adds Second Machine for Deinked Newsprint at Garfield —Charles P. Klass	p. 30	Feb. 28
Garden State Gets 47% Dryness from New Swedish Press Section. —Charles P. Klass	p. 30	Dec. 26
Harding Jones Uses Infra-red Moisture Gage on Festoon Dryer	p. 38	Dec. 26
How Alton Box Board Co. Repairs Damaged Needled Felts —G. R. Chamblis and M. J. Seidel	p. 28	Jan. 24
How to Determine Inherent Paper Machine Capability —Fred Streit	p. 40	Nov. 7
Improved Dryer Clothing Can Mean Real Profit Improvement —O. G. Haywood	p. 50	Aug. 15
Installation of a Control Computer on a Crown Zellerbach Machine —D. F. Church	p. 41	Jan. 31
Major Glassine Manufacturer Has Success with New Headbox —L. D. Frisbie	p. 44	Feb. 7
More Practical Suggestions from a Papermaker's Notebook —Herbert Maus	p. 36	Feb. 28
New Solutions to Problems of Hair Shedding by Felts	p. 62	Jan. 10
New Type of Asbestos Shows Advantages in Papermaking —Charles P. Klass and Blair L. Ingalls	p. 40	Feb. 14

	Issue
Practical Suggestions from a Papermaker's Notebook —Herbert Maus ..... p. 50	Feb. 14
Practical Suggestions from a Papermaker's Notebook—Part III —Herbert Maus ..... p. 42	Mar. 21
Progress Report on Thilmany's Hi-I Press Evaluation —Charles P. Klass ..... p. 30	Jan. 24
Swedish Engineers Review Results Obtained with Newer Press Designs ..... p. 34	Apr. 11
Water Removal with the High Intensity Nip Press —S. J. McNamara and M. K. Baxter ..... p. 70	Feb. 21
What is the Status of Plastic Fourdrinier Forming Fabrics Use? ..... p. 46	June 20
What's New in Paper Machine Felts —J. Spencer Standish ..... p. 42	May 9
Where are We Going in Dryer Section Design? —Otis B. Witworth ..... p. 66	Feb. 21
Why Hydrofoils are Replacing Table Rolls on the Fourdrinier —J. L. Hanchette ..... p. 64	May 23
Winder Operation—Present Information Not Used, Problems to be Studied —I. I. Locke ..... p. 38	Sept. 5

Production Data

Gain of 18% in Capacity by 1968.... p. 44	Nov. 28
Paper and Board Production Records were Set in 1965 ..... p. 40	Apr. 11
Paperboard Manufacturers Get Optimistic Reports with a Few Reservations —John C. W. Evans ..... p. 42	Nov. 28

Research

50th Anniversary of the Finnish Pulp & Paper Research Institute.. p. 46	Oct. 31
Hammermill Paper Co. Unveils Its Modern R&E Center —Harry Dyer ..... p. 42	June 5
How R & D Men Can Eliminate Roadblocks to New Product Success —Peter E. Wrist ..... p. 46	Nov. 7

Semi-chemical Pulping

Boise Cascade's New NSSC Medium Mill is in Full Production —Harry Dyer ..... p. 26	Jan. 31
U.S.F.P.L. Research Seminar Studies NSSC Recovery Methods.. p. 52	Dec. 12

Stock Preparation

Chest-in-Chest Design for Blending and Storage ..... p. 54	Nov. 14
Fundamentals of and Latest Developments in Groundwood Screening —Gunnar Gavelin ..... p. 58	May 23
Glatfelter Adds Baler to Handle Dry Broke ..... p. 44	July 18
High Density Agitation System Increases Uniformity for Riegel.. p. 41	June 6
Improve Board Machine Profits Through Better Stock Preparation —W. Herbert and D. H. Kohlhepp p. 30	July 18
Modern Screen Room Arrangements and How to Evaluate Them —Gunnar Gavelin ..... p. 37	May 30
New Economical Design Concept for Pulp Storage Towers..... p. 54	Oct. 24
New Finckh Vertical Screen—a Pressure Screen Using a Slotted or Perforated Basket —E. Holtz and J. W. Michael.... p. 74	Feb. 21
Principles and Practices in Stock Chest Agitation —E. R. Zuehlke ..... p. 46	May 9
Reduction of Unfiberized Stock from Wet Strength Board —Norman H. Parker ..... p. 54	May 16

Sulphite Pulping

Advancements in Spent Sulphite Liquor Evaporation Technology —William G. Farin ..... p. 46	Nov. 21
Caustic Cookers Take a Hard Look at Sulphite ..... p. 49	Sept. 26
Instrumentation for a Continuous Magnefite Pulping Installation —Douglas E. Honer ..... p. 32	May 30

	Issue
Instrumentation for a Continuous Magnefite Pulping Installation—II —Douglas E. Honer ..... p. 44	June 6
Short Cuts to High Efficiency Collection of Spent Sulphite Liquor —William G. Farin ..... p. 58	Sept. 12
Some Experiences with High Yield Magnesium Base Sulphite Pulping at Hallstavik —Arne Hulteberg ..... p. 58	July 11

Water

Automated Water Supply and Treatment Plant at Glatfelter —Joseph Roth & M. C. Kendrick . p. 50	Nov. 21
How Newton Falls Solved a Clean Water Problem —John E. McAlleese ..... p. 53	Nov. 14
Leje & Thurne Fiber Recovery and Effluent Treatment Plant —Gunnar Gavelin ..... p. 50	July 25
What the Industry & Its Association Are Doing about Stream Pollution —W. R. Adams ..... p. 49	Nov. 28

Wood and Wood Handling

Eastern's New Tree-Length Chipmill—First in Northeast..... p. 48	July 25
Compact, Efficient Chip Handling System Serves Allied's Southern Mill ..... p. 60	Mar. 14
Influence of Cooking Liquor on Wood Components in Kraft Pulping —O. V. Ingruber and Hermann F. J. Wenzl ..... p. 44	Aug. 15
Problems and Opportunities in Utilization and Handling of Pulpwood ..... p. 61	Nov. 14
Rotary Car Dumper Speeds Chip Flow for Fibreboard ..... p. 61	July 25
Swedish Forests' Yield Increased by Fertilizing ..... p. 75	Apr. 25
Union Camp's Continuous Digester Sets Precedent in Sawdust Pulping ..... p. 43	Oct. 24
What's New in Mechanized Pulpwood Processing Systems? ..... p. 38	Apr. 4
Why Settle for Less than Top Performance from Vibrating Screens? —James Elder ..... p. 67	Sept. 12
Why We Must Mechanize Our Pulpwood Operations —Charles B. Stauffacher ..... p. 65	Mar. 7
Wood, the Raw Material for Mechanical Pulp Production —Gunnar Gavelin ..... p. 80	Apr. 25

Author Index to 1966 Feature Articles

A

Adams, W. R.—What the Industry & Its Association are Doing about Stream Pollution—49, Nov. 28.

Alexander, David R.—Control of Moisture Uniformity with Pocket Ventilation—55, Sept. 19.

Aranto, Aarno—Production and Refining of Tall Oil in Finland—39, Mar. 21.

Atack, Douglas—Broad Look at Developments in Production of Groundwood Pulp—28, Aug. 29.

B

Baxter, M. K. and McNamara, S. J.—Water Removal with the High Intensity Nip Press—70, Feb. 21.

Blundell, K. D.—British View of the Role of the Consulting Engineer—44, Aug. 29.

Buck, John—British Paper Conditioner Stabilizes Moisture Content—32, Dec. 26; Coated Paper Discussed at U.K. Conference—40, Apr. 18; New Specialty Coater Doubles Output at Jointine Products—43, Apr. 4.

C

Carson, Bert—Field Interrupter Relay, a Watchdog Over the D.C. Motor—37, Aug. 8; How to Control an Industrial Salvage Program—60, Sept. 12; The Bar Chart: A Complement to Critical Path Planning in Everyday Maintenance—34, Jan. 3.

Chamblis, G. R. and Seidel, M. J.—How Alton Box Board Co. Repairs Damaged Needled Felts—28, Jan. 24.

Church, D. F.—Installation of a Control Computer on a Crown Zellerbach Machine—41, Jan. 31.

Clark, N. O., Windle, W., and Restall, C. A.—The Helicoater—A Novel Approach to a Study of the Problems of Blade Coating Machines—49, Sept. 19.

Coykendall, L. H.—Cause and Prevention of Fuel Explosions in Power Boilers—40, Aug. 29.

Cummins, Orval—Automatic Monitoring can Improve Paper Machine Efficiencies—58, Oct. 17.

D

Davant, James W.—Wall Street Looks at the Pulp and Paper Industry—45, Feb. 14.

DeGroot, H. S. and Ewing, F. G.—Evaluation of New Continuous Starch Conversion Process at Oxford's Rumford Mill—48, Mar. 21; Further

Studies of Continuous Starch Conversion for Coating—32, Sept. 5.
Dutt, William H.—Dryer Clothing Today—I—50, Oct. 17; Dryer Clothing Today—II—50, Oct. 24.
Dyer, Harry—Boise Cascade's New NSSC Medium Mill is in Full Production—26, Jan. 31; Great Lakes Sets Sails for World Markets with New Kraft Mill—50, Aug. 22; Hammermill Paper Co. Unveils its Modern R&E Center—42, June 6.
Dyer, Harry and Klass, Charles P.—Union Camp's Continuous Digester Sets Precedent in Sawdust Pulping—43, Oct. 24.

E

Edenborough, L. D.—How Wiggins Teape Developed its On-Machine Porosity Meter—62, Sept. 12.
Edwards, Jeremy P. J.—New Production Facilities Dedicated at St. Regis Bucksport—42, Oct. 10.
Elder, James—Why Settle for Less Than Top Performance from Vibrating Screens?—67, Sept. 12.
Emery, John R. and Emery, Roy W.—Review of the Pulp Molding Industry and Processes Used—29, Jan. 3.
Evans, John C. W.—Cons. Paper Corp. Inaugurates Machine—42, Dec. 5; Paperboard Manufacturers Get Optimistic Reports with a Few Reservations—42, Nov. 28.
Ewing, F. G. and DeGrott, H. S.—(see DeGroot).

F

Farin, William G.—Advancements in Spent Sulphite Liquor Evaporation Technology—46, Nov 21; Short Cuts to High Efficiency Collection of Spent Sulphite Liquor—58, Sept. 12.
Fehn, Halvar—Two New Scandinavian Chip Groundwood Plants are of Swedish Design—52, Dec. 5.
Fennell, F. L., Hoh, G. L. K., and Statler, N. J.—Peroxide Bleaching of Chemi-Mechanical Hardwood Sulphite Pulp—57, Nov. 21.
Fisher, John—Design and Operation of Mead's Kingsport No. 5 Computer System—41, Aug. 15.
Freedman, Herbert—Penobscot's Completely New Pulp Mill Now in Operation at Great Works, Maine—60, Feb. 21.
Frisbie, L. D.—Major Glassine Manufacturer Has Success with New Headbox—44, Feb. 7.

G

Gavelin, Gunnar—Current Status of Mechanical Pulp Manufacture from Chips—38, July 18; Current Trends in Groundwood Mill Design and Operation—41, May 2; Current Trends in Methods of Bleaching Mechanical Pulp—42, June 27; Fundamentals of and Latest Developments in Groundwood Screening—58, May 23; Grinding Variables and Their Effect on Mechanical Pulp Quality—53, Mar. 14; How Chip Groundwood Pulp is Manufactured—54, July 25; How to Measure Groundwood Pulp Quality—44, Mar. 28; How to Measure Groundwood Pulp Quality—Part II—43, Apr. 11; Leje & Thurne Fiber Recovery and Effluent Treatment Plan—50, July 25; Modern Screen Room Arrangements and How to Evaluate Them—37, May 30; Problems of Mechanical Pulp Quality—50, Apr. 18; Pulpstones for Production of Mechanical Pulp—41, Feb. 28; Reappraisal of Grinders for Manufacturing Mechchanical Pulp—56, Feb. 7; Refining Groundwood Screen Rejects to Make Useable Pulp—71, June 13; Theory and Practice in Grinding Wood for Mechanical Pulp—52, Jan. 10; Thickening, Storing, and Drying Groundwood Pulp for Shipment—54, July 11; Wood, the Raw Material for Mechanical Pulp Production—80, Apr. 25.
Guillory, Al—Progress Report on Computer Control of EasTex's Bleach Plant—35, Jan. 31.

H

Hanchette, J. L.—Why Hydrofoils are Replacing Table Rolls on the Fourdrinier—64, May 23.
Hansen, V. E.—Control of Wire Table Drainage—Foils Show Versatility—34, Dec. 26.
Harris, W. R.—Solid-state Equipment for High-power Drive Controls—42, June 20.
Harter, Michael D. and Smith, George R.—The Hybrid Computer . . . Powerful Tool for Process Problems—76, Apr. 25.
Hawkes, H. T.—Movable Side Guide, Straight Flow Boost Trimmer Production—48, Feb. 14.
Hawkins, Robert F.—New Coatings Improve Packaging of Frozen Convenience Foods—54, Apr. 18.
Haywood, O. G.—Improved Dryer Clothing Can Mean Real Profit Improvement—50, Aug. 15.
Herbert, W. and Kohlhepp, D. H.—Improve Board Machine Profits through Better Stock Preparation—30, July 18.
Hoh, G. L. K., Stalter, N. J. and Fennell, F. L.—(see Fennell).
Holtz, E. and Michael, J. W.—New Finckh Vertical Screen—A Pressure Screen Using a Slotted or Perforated Basket—74, Feb. 21.
Honer, Douglas E.—Instrumentation for a Continuous Magnefite Pulping Installation—32, May 30; Instrumentation for a Continuous Magnefite Pulping Installation—II—44, June 6.
Hulteberg, Arne—Some Experiences with High Yield Magnesium Base Sulphite Pulping at Hallstavik—58, July 11.

I

Ingalls, Blair L. and Klass, Charles P.—New Type of Asbestos Shows Advantages in Papermaking—40, Feb. 14.
Ingruber, O. V. with Wenzl, Hermann, F. J.—(see Wenzl).

J

Jones, Thomas M.—First Thirty Months of Experience with Venta-Nip Presses—62, Aug. 22.
Justice, L. and Schrock, R.—Special Shear-type Slitters Solves Interstate's Dust Problem—47, Oct. 31.

K

Kasser, I. M.—Spain's Largest Esparto Mill Uses Salt Water, Automated Bleaching—48, Mar. 14.
Kendrick, M. C. and Roth, Joseph—Automated Water Supply and Treatment Plant at Glatfelter—50, Nov. 21.
Kirk, David E.—An Overview of Computer Control in the Pulp and Paper Industry—34, Jan. 31.
Klass, Charles P.—Allied Adds New 200 t.p.d. Fine Paper Machine at Alabama Mill—32, Aug. 8; Computerized Machine Boosts Mead's White Paper Capacity by 15 Per Cent—36, Aug. 15; EUCEPA Conference in London Features All Types of Coating—44, Sept. 19; Expansion More Than Doubles Capacity of CCC Augusta Mill—

46, July 11; Finch, Pruyn Marks 100th Anniversary with Major Mill Expansion—32, Jan. 24; Garden State Adds Second Machine for Deinked Newsprint at Garfield—30, Feb. 28; Garden State Gets 47% Dryness fr... New Swedish Press Section—30, Dec. 26; Hudson Boosts Tissue Capacity with Major Expansion at Palatka—40, Oct. 3; ISA Symposium Spotlights Simulation Sensing and Control—36, May 2; Largest U. S. Newsprint Machine Starts Up at Cox Newsprint, Inc.—24, Aug. 1; Marketing Comes of Age in the Paper Industry—43, Nov. 7; New Pulp Mill at Kamloops Is Only the Beginning—62, June 13; Paper Industry IE Conference Studies Methods and Motivations—32, Apr. 4; Progress Report on Thilmany's Hi-I Press Evaluation—30, Jan. 24; Report From Chicago: Coating Conference Registers All-time High—48, May 23; Union Camp Completes Major Expansion of Franklin, Va., Mill—40, Oct. 24; Union Camp's Continuous Digester Sets Precedent in Sawdust Pulping—43, Oct. 24; Vibrating Pressure Filters Improve Coated Paper Quality—36, Sept. 5; Weyerhaeuser Plainwell Program Includes On-machine Blade Coater—48, Jan. 10; Weyerhaeuser Springfield expansion Nearly Triples Linerboard Capacity—20, Jan. 3; Weyerhaeuser's Plymouth Mill Uses Many New Developments—36, Mar. 28; Wiggins Teape Dedicates Scotland's First Integrated Mill—36, Oct. 31; WMU Conference Investigates Current Status of Paper Industry Computers—32, Jan. 31.

Klass, Charles P. and Dyer, Harry—(see Dyer).

Klass, Charles P. and Ingalls, Blair L.—(see Ingalls).

Kohlhepp, D. H. and Herbert, W.—(see Herbert).

L

Ladendorf, Charles K.—Compact High-Capacity Package Boiler Installed at Waldorf Mill—38, May 16.

Lenz, Walter and Tirado, A., Adalberto—Mexican Kraft Mill Uses Observers to Check its Odor Control Program—64, Aug. 22.

Locke, I. I.—Effect of the Controllable Headbox Variables on Paper Formation—42, Apr. 18; Felts Are the Key Factor in Performance of a Vacuum Pickup—40, Aug. 8; Winder Operation—Present Information Not Used, Problems to be Studied—38, Sept. 5.

M

MacAlleese, John E.—How Newton Falls Solved a Clean Water Problem—53, Nov. 14.

Magnuson, C. W.—Preplanned Shipping of Paper Yields Benefits for Nekoosa-Edwards—36, Apr. 11.

Maloney, J. D. Jr.—Status of Paper Machine Process Control Computers at Mead Corp.—37, Jan. 31.

Mardon, J. and Mehaffey, W. H.—Systems Engineering Leads Way to Computer Control of Machines—37, Jan. 24.

Mattison, Robert J.—Modern Recausticizing Practice Fits Flowsheet to Mill Requirements—28, May 30.

Maus, Herbert—More Practical Suggestions from a Papermaker's Notebook—36, Feb. 28; Practical Suggestions from a Papermaker's Notebook—50, Feb. 14; Practical Suggestions from a Papermaker's Notebook—Part III—42, Mar. 21.

McNamara, S. J. and Baxter, M. K.—(see Baxter).

Mehaffey, W. H. and Mardon, J.—(see Mardon).

Michael, J. W. and Holtz, E.—(see Holtz).

Mounce, George R., Stockmann, John and Smith, Bruce W.—Dual Channel Control System Improves Instrument Availability—36, Aug. 29.

N

Nadelman, Alfred H.—How to Formulate Non-Pigmented and Low-Pigmented Opaque Coatings—80, Apr. 25; Multiple Coating—the Status of the Art—32, June 27.

O

Osborne, George W.—Canadian Expansion—How It Relates to Realities of Future Demand—40, June 27.

Owensby, Carroll—Why American Can Co. Picked Electronic Controls for Naheola—36, July 18.

P

Parker, Norman H.—Reduction of Unfiberized Stock from Wet Strength Board—54, May 16.

Peters, Irving H.—Four years of Experience with Needled Yankee Pickup Felts—48, Oct. 10.

Philpot, James D.—Controlling Maintenance by a Historical Performance Ratio System—45, Dec. 5.

Popham, Colin Francis—Packaging: The View from the United Kingdom and Europe—46, Mar. 7.

R

Ranger, H. O.—Polyethylene Extrusion Coating—the Present Stage of Development—44, Sept. 26.

Reckard, John W.—Belled-end Fittings Widen Use of Light Wall Stainless Steel Piping—83, Apr. 25.

Restall, C. A., Clark, N. O. and Windle W.—(see Clark).

Riegel, W. M.—How Line Executives Can Eliminate Roadblocks to New Product Success—51, Nov. 7.

Roth, Joseph and Kendrick, M. C.—(see Kendrick).

S

Schrock, R., and Justice, L.—(see Justice).

Seidel, M. J. and Chamblis, G. R.—(see Chamblis).

Slatin, Benjamin—The National Economic Outlook—49, Mar. 7.

Smith, Bruce W., Mounce, George R. and Stockmann, John—(see Mounce).

Smith, George R. and Harter, Michael D.—(see Harter).

Southan, E. V. and Winter, R.—Place and Future of Paper in Flexible Packaging, from a Converter's Point of View—47, Oct. 3.

Stalter, N. J., Hoh, G. L. K. and Fennell, F. L.—(see Fennell).

Standish, J. Spencer—What's new in Paper Machine Felts—42, May 9.

Stauffacher, Charles B.—Why We Must Mechanize Our Pulpwood Operations—65, Mar. 7.

Stockmann, John, Mounce, George R. and Smith, Bruce W.—(see Mounce).

Streit, Fred—How to Determine Inherent Paper Machine Capability—40, Nov. 7.

Sydanmaa, Wallace E.—How Consolidated Papers Makes Its Cost Reduction Program Work—34, Apr. 4.

T

Tirado, A., Adalberto and Lenz, Walter—(see Lenz).

Tobar, Ramon Y.—New Uses for Sulphamic Acid in Paper Pulp Bleaching—36, June 27.

Toland, W. J.—"Covered Wagons" Cut Trucking Costs for Union-Camp—60, Jan. 10.

V

Viola, G.—How Rice and Wheat Straw Are Pulped in the Kocani Mill in Yugoslavia—74, June 13.

W

Wells, Reginald—What API Is Doing In Public Relations Area—48, Nov. 28.

Wenzl, Hermann F. J.—Phenomenal Growth in World Kraft Pulp Capacity and Why—32, Aug. 1.

Wenzl, Hermann F. J. with Ingruber, O. V.—Black Liquor Burning and Chemical Make-up—54, Dec. 12; Effect of the Various Cooking Chemicals in Kraft Pulping—33, Aug. 1; Influence of Cooking Liquor on Wood Components in Kraft Pulping—44, Aug. 15; Multistage Kraft Cooking and Other Chemical Modifications—48, Oct. 31; Principles and Practices of Kraft Black Liquor Evaporation—51, Nov. 28; Reaction Parameters in Kraft Pulping—52, Oct. 3; Theoretical Aspects of Brown Stock Washing—50, Nov. 14; Trends and Developments in Batch and Continuous Kraft Cooking—63, Oct. 17; Wood Structure and Movement of Cooking Liquors in the Wood During Kraft Pulping—28, Sept. 5.

Wesson, W. S.—How Marketing Men Can Eliminate Roadblocks to New Product Success—49, Nov. 7.

Wightman, William S.—A Look at Wet Felt Practices in Western Europe—42, Mar. 28.

Wiklund, Bengt—Swedish Coater Does C2S Blade-type Coating Simultaneously—48, Dec. 12.

Wills, C. L.—Albemarle Completes $13 Million Expansion at Roanoke Rapids Mill—38, May 9.

Winter, R. and Southan, E. V.—(see Southan).

Witworth, Otis B.—Where are We Going in Dryer Section Design?—66, Feb. 21.

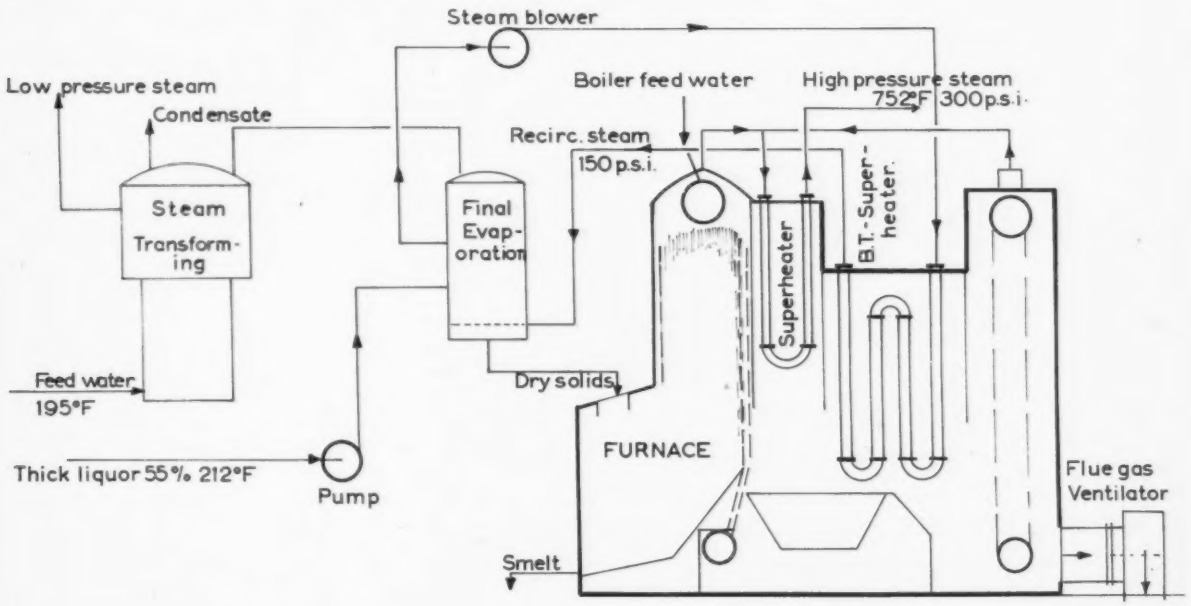
Wrist, Peter E.—How R&D Men Can Eliminate Roadblocks to New Product Success—46, Nov. 7.

Z

Zuehlke, E. R.—Principles and Practices in Stock Chest Agitation—46, May 9.

CORRECTION

Bergstrom-Trobeck black liquor evaporation system



The above drawing, showing the Bergstrom-Trobeck evaporation system, was inadvertantly omitted from the article "Principles and Practices of Kraft Black Liquor Evaporation" by Hermann F. J. Wenzl and O. V. Ingruber, which appeared in our November 28, 1966, issue. Those saving copies of this series of articles on kraft mill operation will want to note that this should have been included and identified as Figure 10. The graph which was labeled Figure 10 in our November 28 issue should have been identified as Figure 11.

In the Bergstrom-Trobeck process, black liquor at 55 per cent solids from the multiple effect evaporator unit is treated in a concentrator with superheated steam of 425° C. The steam is added to the pressure vessel together with the liquor, maintaining a constant pressure of ten atmospheres (147 p.s.i.g.). The liquor is removed continuously at the bottom of the concentrator and, because of the very rapid evaporation, is obtained at a solids content of 85-90 per cent. The generated steam is contaminated but can be used for pre-heating the liquor and the boiler feed water.

The very heavy liquor is added to the recovery boiler. The heat values are utilized in this process at a much greater efficiency, 76 per cent instead of 66 per cent in the usual combustion process, or 58 per cent in the case of more outdated evaporation equipment.

THE FOLLOWING TWO ISSUES FOR VOLUME 150
FEBRUARY 21, 1966 & APRIL 18, 1966 HAVE PAGES
MISSING AND ARE NOT AVAILABLE FOR MICROFILMING

FEBRUARY 21, 1966 - PAGES MISSING BETWEEN 10 & 21

APRIL 18, 1966 - PAGES 22-23